

OCEAN GALES AND STORMS, AUGUST, 1927

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barometer	Gale ended	Lowest barometer (Ins.)	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Highest force of wind and direction	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
Housatonic, Br. S. S.	Key West	Avonmouth	39 27N.	66 20W.	Aug. 1	10 p. 1	Aug. 2	29.84	SSW	S, 8	WSW	S, 8	SSW-WSW.
Coronia, Br. S. S.	Cherbourg	New York	41 12N.	57 00W.	5	noon, 5	5	29.77	W	SW, 8	NW	S, 9	SW-NW.
Trinculo, Br. S. S.	Rotterdam	Curacao	44 24N.	18 12W.	5	1a. 6	6	29.74	SW	WNW	NW	WNW, 8	SW-WNW.
Copan, Hond. S. S.	New Orleans	Puerto Cortes.	15 48N.	88 00W.	7	4a. 7	7	29.72	ENE	ENE	E	E, 8	Steady.
Bristol City, Br. S. S.	New York	Bristol	46 17N.	40 52W.	9	Mdt., 10	10	29.57	SSE	SSE, 8	SSE	SSE, 8	Do.
Anacortes, Am. S. S.	Boston	Cardiff	43 24N.	58 06W.	16	—, 16	16	29.70	SE	SSE, 8	NW	—, 9	SSE-NW.
Denham, Br. S. S.	Durban	Avonmouth	43 30N.	12 00W.	17	3p., 18	19	29.86	W	—, 6	WNW	—, 8	Steady.
Vincent, Am. S. S.	Havre	New York	48 12N.	33 29W.	19	5a., 19	20	29.12	S	SSW, 9	WNW	W, 9	S-W.
Stockholm, Swed. S. S.	Gothenburg	do	56 00N.	26 12W.	19	1a., 20	20	28.65	E	NE, 9	NNW	NE, 9	E-NNE.
Western Ally, Am. S. S.	Antwerp	do	50 25N.	16 00W.	19	9p., 20	22	29.25	SW	SW, 9	NW	SW, 9	Steady.
Schoharie, Am. S. S.	Liverpool	Jacksonville	47 51N.	17 50W.	20	11a., 21	22	29.20	SW	W, 9	NW	W, 9	SW-WNW.
Raimund, Ger. S. S.	Bremen	New Orleans	28 02N.	68 40W.	22	8p., 22	23	29.15	ENE	SE, 12	E	—, 12	E-SE.
Maraval, Br. S. S.	New York	West Indies	25 00N.	65 35W.	21	1a., 22	23	28.06	NE	N, 12	S	N, 12	Do.
Maracaibo, Am. S. S.	La Guayra	New York	34 00N.	70 15W.	23	8p., 23	24	29.41	E	SE, 12	WNW	SE, 12	SE-SSE.
Cripple Creek, Am. S. S.	Port Arthur	Liverpool	36 18N.	72 45W.	23	4p., 23	24	28.66	E	E, 7	W	NW, 12	NE-NW.
Chatham, Am. S. S.	Boston	Norfolk	40 13N.	70 30W.	24	10a., 24	24	28.98	NE	ENE, 12	NW	ENE, 12	ENE-N.
Darian, Br. S. S.	Liverpool	Boston	42 20N.	67 28W.	24	4p., 24	24	28.53	N	N	NW	—, 12	NE-N.
Stockholm, Swed. S. S.	Gothenburg	New York	44 18N.	63 18W.	24	10p., 24	25	28.82	SSE	S, 12	WSW	S, 12	SSE-WSW.
Ariano, Br. S. S.	Montreal	London	52 46N.	46 19W.	25	9p., 25	26	28.81	NE	W, 8	WNW	WNW, 11	WSW-WNW.
Galtymore, Br. S. S.	Liverpool	Boston	52 09N.	35 20W.	25	2a., 26	28	29.17	S	W, 11	W	W, 11	SSW-W.
Winnebago, Br. S. S.	Manchester	New York	55 18N.	15 15W.	26	10p., 27	27	29.37	WSW	SW, 9	WSW	SW, 9	WSW-SW.
NORTH PACIFIC OCEAN													
Pres. Cleveland, Am. S. S.	Honolulu	Yokohama	41 00N.	150 00E.	7	6p., 7	8	29.62	SE	SE, 7	SE	SE, 8	Steady.
Pacific, Am. S. S.	Everett	Balboa	12 51N.	91 03W.	8	3p., 8	8	29.67	SW	SW, 8	SW	SW, 8	Do.
Standard, Am. S. S.	San Pedro	do	16 30N.	100 30W.	8	8p., 8	9	29.65	SE	SE, 9	SE	SE, 9	Do.
Nora, Am. S. S.	do	Iquique	19 36N.	106 10W.	9	2p., 9	10	29.67	SE	SE, 9	SE	SE, 9	Do.
General Smuts, Br. S. S.	Osaka	Coos Bay	47 43N.	149 42W.	11	2a., 11	11	30.00	WSW	W, 7	W	W, 8	Do.
Africa Maru, Jap. S. S.	Victoria	Yokohama	51 20N.	173 46W.	9	Noon, 11	12	29.48	SW	WSW, 8	—	WSW, 8	SW-NW.
West Holbrook, Am. S. S.	Columbia River	Nagoya	43 25N.	150 54E.	13	5p., 13	13	29.48	SE	SSE, 10	SW	SSE, 10	S-SW.
Choyo Maru, Jap. S. S.	Milke	Astoria	40 36N.	150 19E.	13	Noon, 13	13	29.58	SE	SSE, 8	SSW	SSE, 8	SSE-SSW.
Abia, Du. S. S.	San Francisco	Yokohama	40 20N.	154 00W.	30	10a., 31	31	29.49	SE	SSE, 9	NW	SE, 10	SE-S-W.
Havre Maru, Jap. S. S.	Yokohama	San Francisco	39 57N.	149 50E.	30	4a., 31	31	29.20	S	S, 8	WSW	W, 9	S-W.
SOUTH PACIFIC OCEAN													
West Henshaw, Am. S. S.	Dunedin, N. Z.	do	33 21S.	173 34W.	6	Noon, 7	7	29.55	N	NNW, 9	WSW	NNW, 9	Do.
Losada, Br. S. S.	Corral	Balboa	31 48S.	72 32W.	13	Mdt., 13	14	30.00	SSE	S, 8	S	S, 8	Do.
Valemore, Br. S. S.	Buenos Aires	Antofagasta	41 32S.	78 36W.	13	11p., 14	15	29.59	W	WSW, 8	WSW	WSW, 11	W-WSW.
Aorangi, Br. M. S.	Honolulu	Sydney	34 12S.	161 29E.	17	4p., 17	18	29.72	SW	SW, 6	SSW	SW, 8	WNW-SW.
Tekoa, Br. S. S.	Wellington	Balboa	38 54S.	145 25W.	19	8p., 21	21	29.75	E	NNE, 7	N	NNE, 8	NNE-NNW.
SOUTH ATLANTIC OCEAN													
Valemore, Br. S. S.	Buenos Aires	Antofagasta	46 25S.	62 44W.	7	2a., 8	8	29.08	W	WSW, 10	SW	WSW, 10	W-WSW.
Elkhorn, Am. S. S.	Port Arthur	Pernambuco	31 36S.	50 14W.	12	4p., 12	14	29.36	NE	SW, 10	SW	SW, 10	NNE-SW.
Capillo, Am. S. S.	New York	Montevideo	25 10S.	43 43W.	13	2p., 13	14	29.49	SW	SW, 8	SW	SW, 8	Steady.

NORTH PACIFIC OCEAN

By WILLIS E. HURD

Good weather continued over the great sailing routes of the North Pacific Ocean during August, and gales in northern and middle latitudes were nearly as infrequent as during the quiet preceding month. Except for some moderately strong winds not exceeding 8 in force experienced south of the central Aleutians and the Gulf of Alaska on and about the 11th, the only known gales occurring north of the 40th parallel were in connection with cyclones passing up the east coast of central Japan on the 7th, 13th, and 31st. These gales were reported as rising to force 10 on the last two dates.

The great anticyclone of the eastern part of the ocean continued strong and widespread throughout the month as well as undisturbed by intruding cyclones. Pressures were moderately low over Aleutian and southwestern Alaskan waters, and generally with only slight variations from the normal. Yet the Aleutian cyclone was plainly in evidence over part or all of this area during the entire period. Pressures elsewhere likewise did not vary greatly from the average of many years. Readings for selected coast and island stations in west longitudes are given in the following table:

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level at indicated hours, North Pacific Ocean, August, 1927

Stations	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Inches	Inch	Inches		Inches	
Dutch Harbor ^{1,4}	29.78	-0.12	30.26	31st	29.20	12th.
St. Paul ^{1,5}	29.78	+0.02	30.24	31st	29.12	10th.
Kodiak ^{1,5}	29.83	-0.02	30.26	20th	29.44	11th.
Midway Island ¹	30.05	-0.04	30.14	2d	29.90	31st.
Honolulu ²	30.01	0.00	30.08	27th	29.92	31st.
Juneau ²	30.00	-0.02	30.35	16th	29.51	26th.
Tatoosh Island ^{1,3}	30.02	-0.03	30.15	30th	29.86	17th.
San Francisco ^{1,3}	29.97	+0.02	30.12	30th	29.78	13th.
San Diego ^{1,3}	29.92	+0.03	30.02	29th	29.77	8th.

¹ P. m. observations only.² A. m. and p. m. observations.³ Corrected to 24-hour mean.⁴ For 25 days.⁵ For 29 days.⁶ For 30 days.

Considerable activity of tropical cyclones occurred in the Far East. The subjoined report by Rev. José Coronas, S. J., of the Philippine Weather Bureau, narrates the movements of such typhoons as had appeared

up to and including the 26th of the month. On the two following days—the 27th and 28th—the entire southwestern part of the ocean to the coastward of the 145th meridian of east longitude was affected by cyclonic weather, although no reports are at hand as to the gales occurring near the centers of activity. On the evening of August 30 distinct typhoon centers lay close off the south coast of China, over the islands south of Kyushu, and to the eastward of Honshu.

Mexican coast waters were perturbed by a cyclone of moderate intensity which occurred on the 7th to 10th. Reports of moderate gales on the 7th and of fresh gales on the 8th were made by vessels to the south and west of the Gulf of Tehuantepec. These winds were followed by strong gales west of Manzanillo on the 9th. The wind directions noted, and the accompanying barometric depressions, further indicate that a cyclone, which seems to have died out below the entrance to the Gulf of California on the 10th, was passing up the coast.

The weather at Honolulu was not marked by exceptional conditions. The prevailing wind was east. The average wind velocity was 10 miles an hour, and the maximum velocity 28 miles from the northeast on the 2d.

Fog continued frequent during August along the northern sailing routes, the percentage being close to 30 from the central Aleutians southwestward to northern Japan, and only slightly less eastward to about 145° west longitude, but much less thence to the American coast. Considerable fog occurred, however, in the upper coast waters of Washington and off middle and southern California. Yet on the whole the percentages were somewhat lower than the normal as outlined on the Hydrographic Office Pilot Chart of the North Pacific Ocean.

TYPHOONS AND DEPRESSIONS

TYPHOONS IN THE FAR EAST DURING AUGUST, 1927

By REV. JOSÉ CORONAS, S. J.

[Weather Bureau, Manila, P. I.]

There have been at least three well-developed typhoons in the Far East during this month of August: One over the Philippines, one over Formosa, and one over the Loochoos and Korea. Three other smaller or less important typhoons were shown by our weather maps.

Typhoon over the Loochoos and Korea.—This typhoon was probably formed on August 3 to 4 about 250 miles to the north of Yap. It moved first westward for one day, and then it inclined gradually to the north on the 5th. According to our weather maps, it seems to have moved almost due N., and perhaps even to N. by E. on the 6th, but on the 7th, when near the Loochoos, it took a NW. direction, and kept this direction until about noon of the 8th, when it moved N. or N. by E. across the Eastern Sea near the China coast. On the 9th it recurved more to the NE. and traversed Korea during the night of that day.

The position of the center at 6 a. m. of the 7th, 8th, 9th, and 10th was as follows:

August 7, 6 a. m., 127° 00' longitude E., 23° 45' latitude N.
August 8, 6 a. m., 124° 00' longitude E., 27° 10' latitude N.
August 9, 6 a. m., 123° 50' longitude E., 32° 50' latitude N.
August 10, 6 a. m., 129° 45' longitude E., 38° 40' latitude N.

Typhoon of Formosa.—This typhoon was clearly shown by our weather maps in the afternoon of August 11 to the north-northwest of Yap, not far from 137° longitude E., between 13° and 14° latitude N. It moved practically to NW. by W. from the beginning until it reached the southern part of Formosa in the morning of the 15th. It traversed Formosa and the Formosa Channel on the 15th, moving WNW.

The approximate position of the center at 6 a. m. of the 12th, 13th, 14th, 15th, and 16th was as follows:

August 12, 6 a. m., 134° 00' longitude E., 15° 10' latitude N.
August 13, 6 a. m., 130° 15' longitude E., 17° 15' latitude N.
August 14, 6 a. m., 126° 05' longitude E., 19° 35' latitude N.
August 15, 6 a. m., 121° 55' longitude E., 22° 10' latitude N.
August 16, 6 a. m., 115° 30' longitude E., 24° 45' latitude N.

Typhoon over the northernmost part of Luzon.—This typhoon was shown by our weather maps of August 18 to the east of Luzon in about 129° longitude E., 16°, or between 16° and 17°, latitude N. It moved WNW. and passed close to Aparri in the morning of the 19th, the barometric minimum recorded there being as low as 726.49 mm. (28.60 inches) at 8.30 a. m. The center passed very near to Pratas during the night of the 19th to 20th, and about 60 miles to south of Hong Kong at about noon or 2 p. m. of the 20th. The violence of the storm was strongly felt in the Provinces of Cagayan, Mountain, Ilocos Norte, and Ilocos Sur.

The position of the center at 6 a. m. of the 18th to 20th was:

August 18, 6 a. m., 128° 50' longitude E., 16° 20' latitude N.
August 19, 6 a. m., 122° 15' longitude E., 18° 30' latitude N.
August 20, 6 a. m., 115° 40' longitude E., 20° 35' latitude N.

Another typhoon is being shown by our weather maps at the time we are writing these notes to the east of the northernmost part of Luzon. It appeared on August 22 about 500 miles to the east of San Bernardino Strait. It moved NW. or NNW. on the 22d and 23d; but then it remained almost stationary for about two days near 129° longitude E., between 18° and 19° latitude N. At present it seems to be inclining gradually to the west.¹

A small typhoon of no great importance moved northward near and to the west of Meiacosima group of islands on August 2 to 4.

Finally another typhoon of no importance for the Philippines was noticed to the south of Guam on August 19 and 20. It recurved northeastward about 300 miles to the west of the Ladrone Islands on the 22d.

¹ To-day, Aug. 26, there are three or four centers of depression or typhoon shown by our weather maps over the Pacific to the east of the Philippines and the Loochoos Islands. We may mention their tracks in our article for next month.